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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: S. WU et al.

Attorney Docket No: 20002.0263

Application No.: 10/256,011

Group Art Unit: 1712

Filed: September 27, 2002

Examiner: D. Buttner

For: THIN-LAYER-COVERED GOLF BALL WITH IMPROVED VELOCITY

# CERTIFICATE OF TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that the following correspondence for Application No.  $\underline{10/256.011}$  is being facsimile transmitted to the United States Patent and Trademark Office at (703) 872-9306 (official fax number) on May 25, 2004.

- 1. Transmittal (1 page)
- 2. Fee Transmittal & copy (2 pages 1 original, 1 copy)
- 3. Response to Office Action (10 pages)
- 4. Terminal Disclaimer (2 pages)
- 4. Change in Auorney Docket Number (1 page)
- 6. Certificate of Transmission (1 page)

Total Pages Submitted: 17

John P. Mulgrew, Reg. No. 47,809

TRANSMITTAL FORM (to be used for all correspondence after initial filling)			Application Number	10/256,011		
			Filing Date	September 27, 2002		
			First Named Inventor	S. WU		
			Art Unit	1712		
			Examiner Name	D. Buttner		
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: S. WU et al.

Attorney Docket No: 20002.0263

Application No.: 10/256,011

Group Art Unit: 1712

Filed: September 27, 2002

Examiner: D. Buttner

For: THIN LAYER-COVERED GOLF BALL WITH

IMPROVED VELOCITY

### RESPONSE TO OFFICE ACTION

Commissioner for Patents PO Box 1450 Alexandria, Virginia 22313-1450

Sir.

In response to the office action mailed February 25, 2004, Applicants submit the following amendments and remarks for entry and consideration during the examination of the above-identified application.

### IN THE CLAIMS

Please amend the claims as follows:

- (Currently Amended) A golf ball comprising:
  - a center comprising a material formed from the conversion reaction of at least a cisto-trans catalyst and a polybutadiene, wherein the material has a molecular weight of greater than about 200,000 and a resilience index of at least about 40;
  - an inner cover layer, and
  - an outer cover layer disposed about the inner cover layer comprising a polyurethane composition.
- (Original) The golf ball of claim 1, wherein the inner cover layer comprises at least one of an ionomer resin, a polyurethane, a polyetherester, a polyetheramide, a polyester, a dynamically vulcanized elastomer, a functionalized styrenebutadiene elastomer, a metallocene polymer nylon, acrylonitrile butadiene-styrene copolymer, or blends thereof.
- (Currently Amended) The golf ball of claim 1, wherein the resilience index of the 3. material is at least about [[40]] 50.
- (Original) The golf ball of claim 1, wherein the cis-to-trans catalyst comprises at least 4. one of an organosulfur compound, an inorganic sulfur compound, an aromatic organometallic compound, a metal-organosulfur compound, tellurium, selenium, elemental sulfur, a polymeric sulfur, or an aromatic organic compound.
- (Original) The golf ball of claim 1, wherein the polyurethane composition comprises at least one isocyanate, at least one polyol, and at least one curing agent.
- (Original) The golf ball of claim 1, wherein the outer cover layer has a thickness of about 6. 0.02 inches to about 0.04 inches.
- (Original) The golf ball of claim 1, wherein the inner cover layer has an outer diameter of

PAGE 6/17 \* RCVD AT 5/25/2004 4:45:03 PM [Eastern Daylighi Time] \* SVR:USPTO-EFXRF-4/2 \* DNIS:8729306 \* CSID:2024247647 \* DURATION (num-ss):04-56

about 1.55 inches or greater.

Case 1:05-cv-00132-JJF

#### (Canceled) 8. - 20.

- (Currently Amended) A golf ball comprising: 21.
  - a center formed of a reaction product comprising polybutadiene and a cis-to-trans catalyst, wherein the reaction product has a molecular weight of greater than about 200,000, and wherein the reaction product comprises greater than about 32 percent trans-isomer;
  - an inner cover layer;
  - an outer cover layer disposed around the inner cover layer, wherein the outer cover layer comprises a castable reactive liquid material.
- (Original) The golf ball of claim 21, wherein the inner cover layer comprises an ionomer 22. resin, a polyurethane, a polyetherester, a polyetheramide, a polyester, a dynamically vulcanized elastomer, a functionalized styrenebutadiene elastomer, a metallocene polymer nylon, acrylonitrile butadiene-styrene copolymer, or blends thereof.
- (Original) The golf ball of claim 21, wherein the inner cover layer comprises a copolymer of ethylene and an unsaturated monocarboxylic acid, wherein the monocarboxylic acid is at least partially neutralized.
- (Original) The golf ball of claim 23, wherein the monocarboxylic acid is fully 24. neutralized.
- (Original) The golf ball of claim 21, wherein the outer cover layer has a thickness of about 0.02 inches to about 0.04 inches and the inner cover layer has an outer diameter of about 1.55 inches or greater.
- (Original) The golf ball of claim 21, wherein the castable reactive material comprises a prepolymer having less than about 14 percent unreacted isocyanate groups, and wherein the

prepolymer is cured with a polyol, polyamine, or a mixture thereof.

- (Original) The golf ball of claim 21, wherein the cis-to-trans catalyst comprises at least 27. one of an organosulfur compound, an inorganic sulfur compound, an aromatic organometallic compound, a metal-organosulfur compound, tellurium, selenium, elemental sulfur, a polymeric sulfur, or an aromatic organic compound.
- (Original) The golf ball of claim 21, wherein the reaction product has a molecular weight of about 300,000 or greater.

Please add the following new claims:

Case 1:05-cv-00132-JJF

- (New) A golf ball comprising:
  - a center comprising a material formed from the conversion reaction of at least a cisto-trans catalyst and a polybutadiene, wherein the material has a molecular weight of greater than about 200,000 and a resilience index of at least about 40;
  - an inner cover layer, and
  - an outer cover layer disposed about the inner cover layer comprising a castable reactive liquid material.
- (New) The golf ball of claim 29, wherein the cis-to-trans catalyst comprises an 30. organosulfur compound.
- (New) The golf ball of claim 30, wherein the cis-to-trans catalyst is present in an amount 31. sufficient to result in the material comprising greater than 32 percent trans-polybutadiene isomer.
- (New) The golf ball of claim 31, wherein the cis-to-trans catalyst is present in an amount 32. from about 0.1 to 5 parts per hundred based on the total material.
- (New) The golf ball of claim 29, wherein the resilience index is at least about 50. 33.
- (New) The golf ball of claim 29, wherein the inner cover layer has a hardness of about 50 34.

PAGE 8/17 \* RCVD AT 5/25/2004 4:45:03 PM [Eastern Dayligh Time] \* SVR:USPTO-EFXRF-1/2 \* DMS:8/29306 \* CSID:20/24/24/7617 \* DURATION (num-ss):04-56

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### REMARKS

Claims 1-28, as amended, and new claims 29-35 are pending in this application. In this Response, Applicants have amended certain claims. In light of the Office Action, Applicants believe these amendments serve a useful clarification purpose, and are desirable for clarification purposes, independent of patentability. Accordingly, Applicants respectfully submit that the claim amendments do not limit the range of any permissible equivalents.

In particular, independent claim 1 has been rewritten to include the features previously recited in dependent claim 3. Claim 3 has been amended to further define the resilience index. Independent claim 21 has been rewritten to recite that the reaction product has a trans-polybutadiene isomer content of greater than about 32 percent, which is supported by the Specification at Page 17, lines 32-35.

New claims 29-35 have been added to recite additional embodiments of the present invention and are supported by the present Specification as follows:

Claim(s)	Support in Specification
29	Original claims 1-3, and 28
	Page 25, line 33 to Page 26, line 2
30	Original claim 4
31	Page 17, lines 32-35
32	Page 19, lines 2-4
33	Page 32, lines 29-30
34	Page 34, lines 3-4
35	Page 33, line 27 to Page 34, line 3

As no new matter has been added, Applicants respectfully request entry of these amendments at this time.

### RESTRICTION REQUIREMENT

In response to the Restriction Requirement imposed by the Examiner, the Applicant hereby confirms election of Group I (claims 1-7 and 21-28) for prosecution in this application. As a result of the present claim cancellations and additions, however, Group I now includes claims 1-7 and 21-35. In light of the cancellation of claims 8-20, Applicant respectfully submits that the Restriction Requirement is moot.

## THE REJECTIONS UNDER 35 U.S.C. 88 102 & 103

Moriyama '396 Does Not Anticipate or Render Obvious the Present Invention

Claims 1-2, 4, and 6-7 were rejected under 35 U.S.C. § 102(e) as anticipated by or, in the alternative, under §103(a) as obvious over U.S. Patent No. 5,980,396 to Moriyama et al. for the reasons set forth on page 3 of the Office Action. In addition, claims 1-2 and 4-7 were rejected under § 103(a) as obvious over Moriyama '396 in view of U.S. Patent No. 6,117,024 to Dewanjee as provided on page 3 of the Office Action. Moriyama '396 alone, or in combination with Dewanjee, does not disclose or suggest the present invention for the reasons that follow.

The objective of Moriyama '396 is to provide long flight distance and good shot feel. Col. 1, lines 35-37. To achieve this objective, Moriyama '396 proposes a four-piece golf ball with a vulcanized rubber center, a thermoplastic or vulcanized outer core layer, a vulcanized rubber or thermoplastic intermediate layer, and a thermoplastic outer cover layer. See, e.g., Col. 2, lines 10-19 and 30-54. of Abstract. This selection of materials is arranged to provide a soft-hard-soft-hard from the center to the cover. Col. 2, lines 15-19.

Moriyama '396 is silent, however, as to the resilience index of the center material, as presently recited in independent claim 1 and new independent claim 29. One of ordinary skill in the art would not have been motivated to form the center presently recited from the teachings of Moriyama '396 without the improper use of hindsight. As such, Applicants respectfully submit that Moriyama '396 does not anticipate or render obvious the invention presently recited in claims 1-2, 4, and 6-7.1

### The Combination of Moriyama '396 and Dewanjee Does Not Render Obvious the Present Invention

Because Moriyama '396 does not disclose specific teaching regarding a polyurethane outer cover layer, the Examiner relies on Dewanjee for its disclosure of polyisocyanates, polyols, and curing agents. Dewanjee, however, does not cure the deficiencies of Moriyama '396 with respect to the resilience index now recited in independent claim 1. In fact, Dewanjee, like Moriyama '396, is completely silent as to a resilience index of the core material. Thus, Applicants respectfully submit

It appears that the Examiner also recognizes the deficiencies of the cited references with respect to the resilience index of the center material in light of the absence of §§ 102 and 103 rejections of claim 3, as previously recited.

that the combination of Moriyama '396 and Dewanjee does not result in the present invention, nor does it render obvious the present invention.

For the reasons discussed above, Moriyama '396 alone, or in combination with Dewanjee, does not disclose or suggest the invention presently recited in independent claim 1, and those claims depending therefrom. Thus, Applicants respectfully request reconsideration and withdrawal of the §§ 102 and 103 rejections based on the cited references.

## Sullivan and Moriyama '856 Do Not Render Obvious the Present Invention

The Examiner also rejected claims 1-2, 4, 6-7 and 21-28 under § 103(a) as obvious over U.S. Patent No. 6,210,293 to Sullivan in view of U.S. Patent No. 5,697,856 to Moriyama et al. for the reasons stated on pages 3-4 of the Office Action.

Similar to Moriyama '396, Sullivan does not disclose or suggest a center material with a resilience index as presently recited in independent claim 1. As above, it appears that the Examiner agrees with this assessment in light of the lack of substantive rejections of this subject matter (previously recited in dependent claim 3). Moriyama '856 does not remedy this deficiency because the reference also lacks any mention of the resilience index of the center material. In fact, the Examiner appears to rely on Moriyama '856 solely for its disclosure of catalyst. Office Action at Page 4).

Moreover, Sullivan does not disclose or suggest the invention recited in independent claim Independent claim 21 now recites a reaction product having a trans-polybutadiene isomer content of greater than about 32 percent. Because Sullivan is completely silent as to a cis-to-trans catalyst, the Examiner has relied upon Moriyama '856 for its disclosure of catalyst. However, Moriyama '856 teaches that the trans structure after vulcanization must be within the range of 10 percent to 30 percent. Col. 3, lines 27-29 (emphasis added). In fact, the reference teaches away from the claimed amount of trans-polybutadiene isomer in stating that "when the amount of trans structure exceeds 30%, the core is too soft and the resilience performances are deteriorated." Col. 3, lines 31-33. Thus, one of ordinary skill in the art would have lacked any motivation to stray outside of the range disclosed in Moriyama '856 without the present invention to use as a template. As such, the combination of Sullivan and Moriyama '856 does not render obvious the invention presently recited in claim 21.

With regard to the Examiner's rejections of the claims depending from independent claims 1 and 21, Applicants respectfully submit that these claims are patentable at least by virtue of their dependency from allowable subject matter.

For the reasons set forth above, Applicants respectfully submit that no combination of Sullivan and Moriyama '856 discloses or suggests the present invention. Consequently, Applicants respectfully request reconsideration and withdrawal of the rejections based thereon.

# THE DOUBLE PATENTING REJECTION

The Examiner rejected claims 1-7 and 21-28 under the judicially created doctrine of obviousness-type double patenting as obvious over claims 1-50 of the U.S. Patent No. 6,486,261 to Wu et al. Applicants submit herewith a Terminal Disclaimer in compliance with 37 C.F.R. § 1.321(c) in order to overcome the double patenting rejections based on the Wu '261 patent. As such, Applicants respectfully request that the double patenting rejection be withdrawn

# NEW CLAIMS ADDED WITH THIS RESPONSE

Applicants respectfully submit that independent claim 29, and those depending therefrom, are allowable for similar reasons as discussed above. Like rewritten independent claim 1, independent claim 29 also recites a resilience index for the center material, which is lacking from the cited references.

Furthermore, the dependent claims are independently patentable. For example, dependent claim 31 recites a trans-polybutadiene isomer content of the reaction product of greater than about 32 percent. Neither Moriyama '396 nor Sullivan disclose or even suggest a trans-polybutadiene isomer content, as presently recited. Furthermore, as discussed above, Moriyama '856 teaches away from the claimed amount of trans-polybutsdiene isomer content.

Therefore, Applicants respectfully submit that new claims 29-35 are in condition for allowance.

# CHANGE IN ATTORNEY DOCKET NUMBER

A Request for Change in Attorney Docket Number is submitted herewith to change the docket number from 20002.0025A to 20002.0263.

PAGE 13/17 \* RCVD AT 5/25/2004 4:45:03 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/2 \* DNR:8729306 \* CSID:2024247647 \* DURATION (mm-ss):04-56

## CONCLUSION

All claims are believed to be in condition for allowance. If the Examiner believes that the present amendments still do not resolve all of the issues regarding patentability of the pending claims, Applicants invite the Examiner to contact the undersigned attorneys to discuss any remaining issues.

A Fee Sheet Transmittal is submitted to pay for the Terminal Disclaimer. No other fees are believed to be due at this time. Should any fee be required, however, please charge such fee to Swidler Berlin Shereff Friedman, LLP Deposit Account No. 195127, Order No. 20002.0263.

Respectfully submitted, SWIDLER BERLIN SHEREFF FRIEDMAN, LLP

Dated: May 25, 2004

John P. Mulgrew, Registration No. 47,809 SWIDLER BERLIN SHEREFF FRIEDMAN, LLP 3000 K Street, NW, Suite 300 Washington, D.C. 20007 (202) 424-7756 Telephone (202) 295-8429 Facsimile